

9. Operations and logistics at Cape Shirreff, Livingston Island; and Copacabana, King George Island, Antarctica, 1999/2000; submitted by Jane Martin and Rennie S. Holt.

9.1 Objectives: During the 1999/2000 field season, the AMLR program occupied a field camp at Cape Shirreff, Livingston Island, Antarctica (62°28'07"S, 60°46'10"W) to support land-based research on seabirds and pinnipeds. The camp was occupied continuously from 31 October 1999 through 9 March 2000. The AMLR program provided logistical support to the Copacabana field camp on King George Island (62°10'S, 58°30'W), which is the site of seabird research funded by the National Science Foundation. The main logistical objectives of the 1999/2000 season were:

1. To deploy three personnel and provisions in mid-October 1999 from the R/V *Lawrence M. Gould* to the Copacabana field camp at Admiralty Bay, King George Island;
2. To deploy a four-person field team and provisions in late October 1999 from the R/V *Lawrence M. Gould* to Cape Shirreff, Livingston Island to initiate research activities pertaining to seabirds and pinnipeds;
3. To deploy two personnel to Cape Shirreff, along with supplies and equipment, in late December 1999 from the R/V *Lawrence M. Gould*;
4. To deploy two personnel to the Copacabana field camp from the M/V *Explorer* in mid-January 2000;
5. To deploy one person to Cape Shirreff in late January from the M/V *Prof. Molchanov*;
6. To deploy four personnel to the Copacabana field camp from the R/V *Lawrence M. Gould* in early February 2000;
7. To deploy one person to Cape Shirreff in late February 2000 from the R/V *Yuzhmorgeologiya*;
8. To retrieve four personnel from the Copacabana field camp in mid-February 2000 aboard the R/V *Yuzhmorgeologiya*;
9. To retrieve two personnel from Cape Shirreff in late February 2000 aboard the M/V *Prof. Molchanov*, and one person aboard a Chilean Navy vessel;
10. To recover five personnel from the Copacabana field camp in early March 2000 aboard the R/V *Yuzhmorgeologiya* and to retrograde equipment and trash at the end of the season;
11. To recover five personnel from Cape Shirreff in early March 2000 aboard the R/V *Yuzhmorgeologiya* and to retrograde equipment and trash at the end of the field season;

12. To maintain effective communication systems on Cape Shirreff and maintain daily radio contact with either Palmer station or Copacabana camp, or R/V *Yuzhmorgeologiya*.

9.2 Accomplishments: Three personnel (L. Shill, S. Wang, and K. Wallace) and provisions were deployed from the R/V *Lawrence M. Gould* to the Copacabana field camp at Admiralty Bay, King George Island on 13 October 1999.

A four-person field team (M. Goebel, T. Carten, M. Rutishauser, and M. Taft), along with supplies and equipment, arrived at Cape Shirreff aboard the R/V *Lawrence M. Gould* on 31 October 1999. Scientific activities were quickly initiated. Maintenance of the campsite also began. Two additional personnel (R. Holt and B. Parker) and supplies arrived at the Cape Shirreff campsite aboard the R/V *Lawrence M. Gould* on 22 December 1999.

Two field team members (W. Trivelpiece and S. Trivelpiece) and provisions were deployed from the M/V *Explorer* to the Copacabana field camp on 16 January 2000.

One person (D. Costa) was deployed to Cape Shirreff on 29 January 2000 from the M/V *Prof. Molchanov*, and another person (N. Gales) arrived via the R/V *Yuzhmorgeologiya* on 21 February 2000.

Four personnel (K. Salwicka, T. Stiehr, M. Stiehr, and J. Yarkin) arrived at the Copacabana camp from the R/V *Lawrence M. Gould* on 9 February 2000.

On 12 February 2000, the R/V *Yuzhmorgeologiya* retrieved four personnel (L. Shill, S. Wang, K. Wallace, and S. Trivelpiece) from the Copacabana camp for return to the United States.

One person (T. Carten) departed Cape Shirreff via a Chilean Navy vessel on 23 February 2000, while two other personnel (N. Gales and D. Costa) were retrieved by the M/V *Prof. Molchanov* on 24 February 2000.

Five field team members (W. Trivelpiece, K. Salwicka, T. Stiehr, M. Stiehr, and J. Yarkin) were retrieved from the Copacabana field station by the R/V *Yuzhmorgeologiya* on 8 March 2000; the station was closed for the season and retrograded equipment and trash were removed.

On 9 March 2000, the field camp at Cape Shirreff was closed for the season. All personnel (R. Holt, M. Goebel, M. Rutishauser, M. Taft, and B. Parker), along with garbage and equipment requiring maintenance or protection from the winter cold, were removed to the R/V *Yuzhmorgeologiya*.

Daily radio communications were maintained by Cape Shirreff with either the R/V *Yuzhmorgeologiya*, or Palmer station and Copacabana camp by SSB radio.

9.3 Recommendations: Support provided by the R/V *Yuzhmorgeologiya* and the AMLR scientific complement made a significant contribution to the success of the field season at Cape Shirreff. Use of the Chilean ATV and trailer were vital for transporting materials and supplies from the boat landing to the Cape Shirreff campsite. As in past seasons, the practice of using four swimmers in dry-suits to assist with Zodiac beach operations was invaluable.